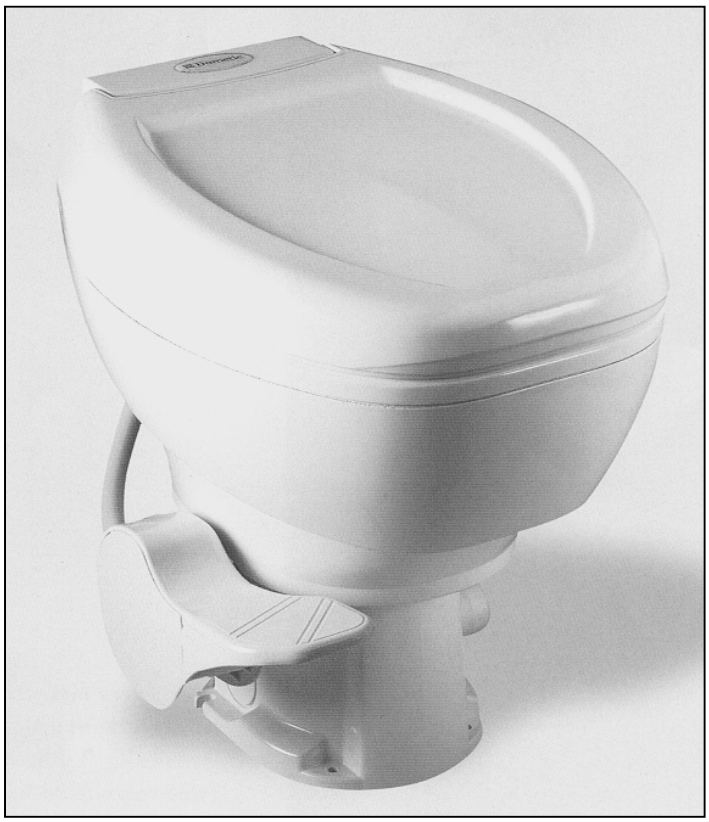
Dometic

INSTRUCTIONS
for USE

INSTALLATION
INSTRUCTIONS

VACUUM-TOILET for RECREATIONAL VEHICLES

VT 2500



English

242 6001 - 66

CE

e 1

T.B. 06/2003

These operating instructions should be kept in a safe place.
If this device is passed on, please include these operating instructions with it.

TABLE OF CONTENTS

INSTRUCTIONS

1.0 INTRODUCTION 4

2.0 FOR YOUR SAFETY 4

2.1 Warning and safety notices 4

3.0 WARRANTY and CUSTOMER SERVICE 4

3.1 Damage in transit 4

4.0 DESCRIPTION OF MODEL 4

5.0 INSTRUCTIONS for USE 5

5.1 Putting into operation 5

5.2 Removing the cassette 6

5.3 Flushing the toilet 6

5.4 Cleaning 6

5.5 Putting out of operation 7

5.6 Declaration of conformity 8

INSTALLATION GUIDE

6.0 Installation 10

6.1 Fixation of the rear wall of the base station 10

6.2 Fixation of the floor plate of the base station 11

6.3 Fixation of the toilet 11

6.4 Inserting the cassette 11

6.5 Connecting pipes 12

6.6 Water supply 13

6.7 Electrical installation 13

6.8 Data sheet 14

6.9 Wiring diagram 15

1.0 INTRODUCTION

You have made an excellent choice in selecting the **Dometic** Vacuum Toilet.
We are sure that you will be fully satisfied with your new appliance in all respects.
It meets high quality standards and guarantees the efficient utilisation of resources and energy throughout its entire life cycle, during manufacture, in use and when being disposed of.

Before you start to use the appliance, please read the installation and operating instructions carefully.
This Vacuum Toilet is designed for installation in leisure vehicles such as caravans or motorcaravans. The appliance has been certified for this application in accordance with corresponding regulations (declaration of conformity).

2.0 FOR YOU SAFETY

2.1 ⚠ ⚠ Warning and safety notices

DANGER **ATTENTION**

- **When operating the flushing system, always keep the seat lid closed.**
- **Do NOT press the pedal during cleaning or whilst the lid is open.**

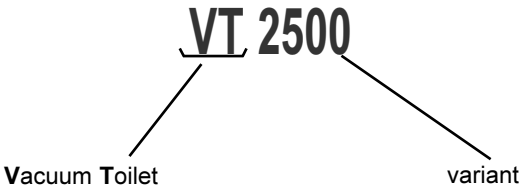
3.0 WARRANTY and CUSTOMER SERVICE

Warranty arrangements are in accordance with EC Directive 44/1999/CE and the normal conditions applicable for the country concerned. For warranty or other servicing, please contact our Dometic Service department. Any damage due to improper use is not covered by the warranty. The warranty does not cover any modifications to the appliance or the use of non-original Dometic parts.
The warranty does not apply if the installation and operating instructions are not adhered to and no liability shall be entertained. Parts can be ordered throughout Europe from our Dometic Service department. When contacting Dometic Service, please state the model and product numbers, together with the MLC Code, if applicable. You will find this information on the data plate inside the pedal housing.

3.1 Damage in transit

After removing the packaging, check whether the vacuum toilet has been damaged during transportation.
Any damage sustained in transit must be reported to the transportation company concerned no later than seven days after delivery of the goods.

4.0 DESCRIPTION of MODEL



5.0 OPERATION

5.1 Putting into operation

First check whether:

- the cassette has been inserted correctly
- the vehicle water tank has been filled
- the power supply has been switched on (main switch).

Once the power supply for the vehicle has been switched on, the toilet is also automatically switched on and a vacuum is produced in the system for the first time.

The **yellow LED** illuminates on the display panel.
After approx. 1 minute this procedure is finished. The **green LED** illuminates.

By lifting the pedal allow a little water to enter the toilet, so that the closure on the base of the receptacle is covered.
Repeat this procedure after each flushing.

The system is ready for operation!

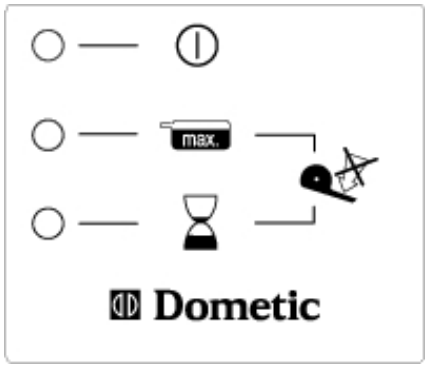
Display panel

LED

GREEN (ready

RED (Cassette full or cassette removed)
TOILET CANNOT BE USED

GELB (pump is running)
TOILET CANNOT BE USED



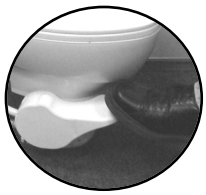
If the cassette is full or it is removed, the **red LED** illuminates and the pump is switched off.

△ **It cannot be used further until the cassette has been emptied or it is inserted again.**

5.2 Flushing the toilet

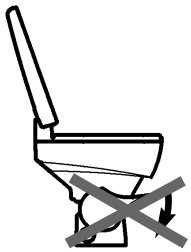
△ **The toilet may only be flushed whilst the green LED is illuminated.**

To flush, press the pedal down on the left side of the toilet. During the flushing process **close the seat lid**; this will considerably reduce the noise.



In order to be able to use the toilet as often as possible for one cassette filling, please economize on the water and paper. Normally approx. **0.4 L** water are sufficient for flushing once.

Only use commercially available toilet paper with 2 layers.
Since the system always operates under a vacuum and is closed hermetically, no smell can develop.



Never press the pedal whilst sitting on the toilet or if the seat lid is open!

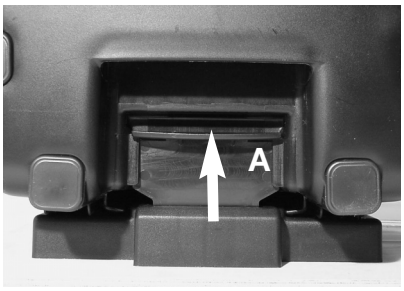
For the environment's sake, do not use any chemicals.

Do not dispose any solid or non-dissolving objects such as plastic cans or paper towels in the toilet. These items can cause damage or plugging of the system !

5.3 Removing the cassette

To remove the cassette, raise the locking latch (**A**) underneath the grip. Pull out the the cassette using the carrying grip (**B**).

When inserting the cassette again, make sure that it is inserted exactly in the opening provided and that after pushing it in, the locking latch has engaged again.



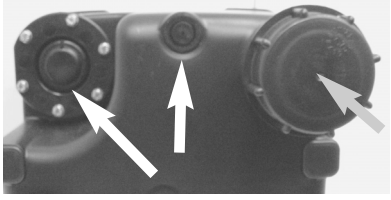
5.4 Cleaning

Since the toilet receptacle is made of ceramic material, you can clean it in the same way as a household toilet.
For cleaning the plastic parts (such as the lid, seat, outer covering) please only use water with a mild cleaning agent.If possible, rinse the cassette with fresh water each time it has been emptied.
To avoid deposits clean also the flush ball (Fig.1) and the sealing ring (Fig. 2 with the flush ball opened)

1

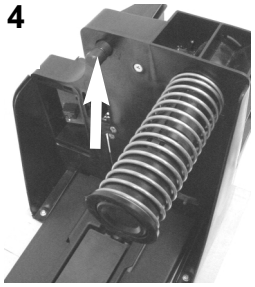
2

Occasional clean the area where the excrements are transferred at the connection (Fig. 3) and on the base station (Fig. 4-5).


3

For emptying open here

4



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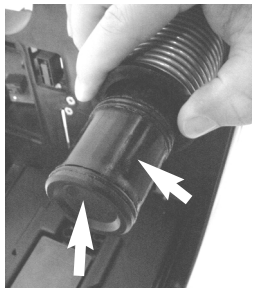
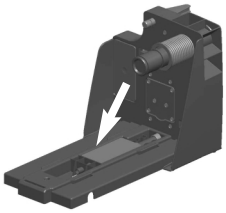
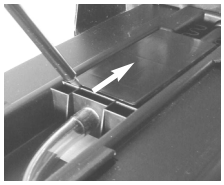


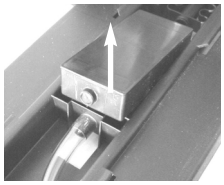
5.4.1 Changing the filter

The filter in the base station must be changed according to the number of times it has been used, at the latest, however, after three years.

filter (242 6001-14/1)



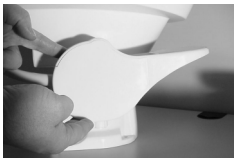




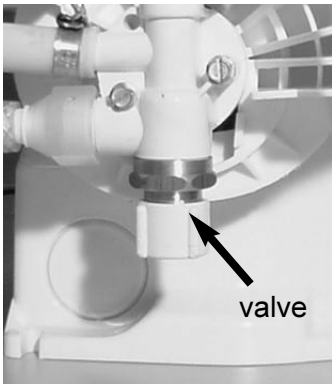
5.5 Putting out of operation

If the vehicle is not going to be used for a longer period of time, especially in the winter months, proceed according to the following instructions:

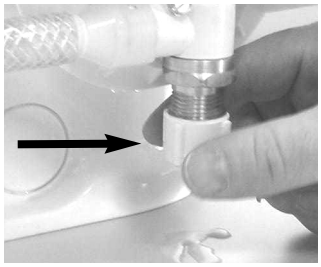
1. After the water tank has become empty in the normal way, or the vehicle pump is switched off and the green lamp indicating "ready" for operation illuminates, press the pedal without allowing any water to enter.
2. Repeat this procedure a second time.
3. Then empty and clean the cassette.
4. Insert the cassette again and turn off the power supply.
5. The inlet valve for the water flushing (located underneath the pedal) must be emptied (see Fig. below).



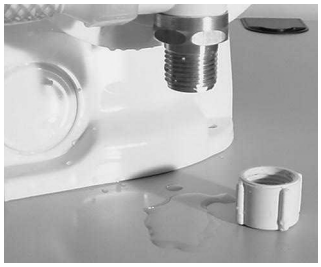
Remove the cover



Unscrew the lock nut and press the pedal with the **water feed turned off**.



The water escapes from the valve.
Then screw on the lock nut again.



5.6 Declaration of conformity

Dometic

DECLARATION OF CONFORMITY

according to

EMC Directive 89/336/EEC
Automotive Directive 72/245/EEC and
the Amendment 95/54/EC
CE Marking Directive 93/68/EEC

Type of equipment	Vacuum toilet
Brand Name	DOMETIC
Type no.	VT 2500 R VT 2500 L VT 2501 R VT 2501 L
Manufacturer' s (Factory)	
name	DOMETIC GmbH
adress	In der Steinwiese 16, D-57074 Siegen
telephone no	INT+49 - 271 692 0
telefax no	INT+49 - 271 692 304

The following harmonized standards or technical specifications (designations) which comply with good engineering practice in safety matters in force within the EEA have been practiced:

EN 55014-1, EN 55014-2 EMC Directive

The equipment conforms completely with the above stated harmonized standards or technical specifications.

By signing this document, the undersigned declares as manufacturer, or the manufacturer's authorized representative established within the EEA, that the equipment in question complies with the requirements stated above.
Manufacturer

Date	**Signature**	**Position**
2003.01.06	**Gunther Bittner**	General Manager

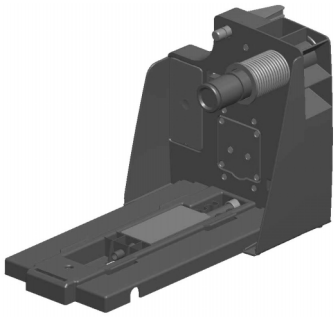
6.0 INSTALLATION

The vacuum toilet is intended for installation in caravans or motor homes.
All parts of the toilet-system have to be installed in a frost-free area.

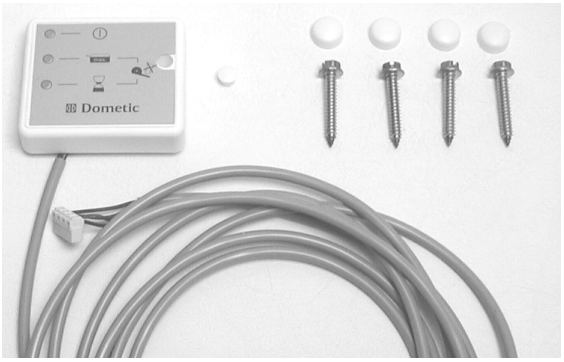
Delivery includes:

Toilet

Vacuum cassette



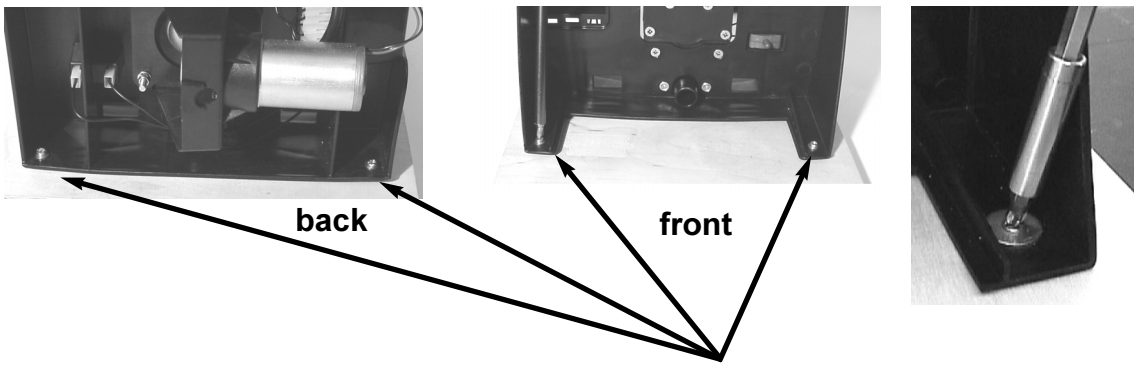
Base station (complete with base plate and rear wall)



Display panel with connection cable
1 cap
4 screws and caps

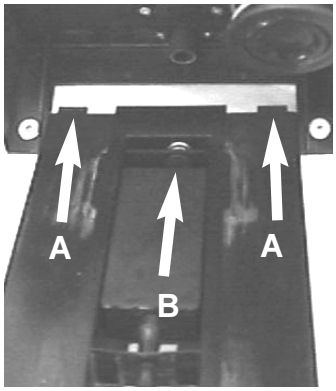
6.1 Fixation of the rear wall of the base station

△ **The base plate and the rear wall must be assembled on the same vehicle element!**



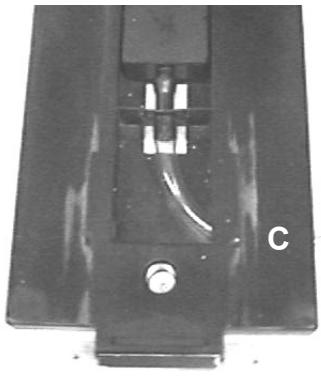
1. The rear wall of the base station is mounted on a level floor at right angles to the outer door using all 4 screws.
   The floor must be strong enough to support the weight of the cassette.

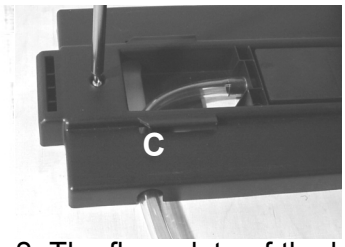
6.2 Fixation of the floor plate of the base station



1. The floor plate of the base station is fixed to the rear wall.
   The floor has two lugs (**A**), that have to be pushed into the respective gaps in the rear wall of the base station.

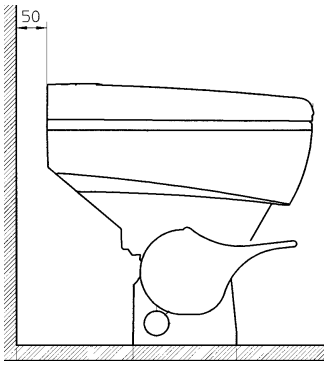
△ Make sure that the connection (**B**) for the carbon filter fits into the place provided!



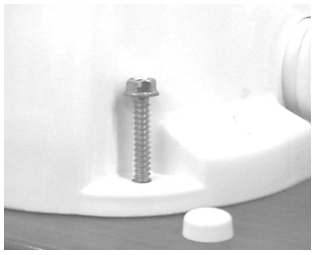


2. The floor plate of the base station is screwed to the floor of the vehicle.
3. The ventilation hose (C) is conducted through the vehicle floor to the exterior.

6.3 Fixation of the toilet



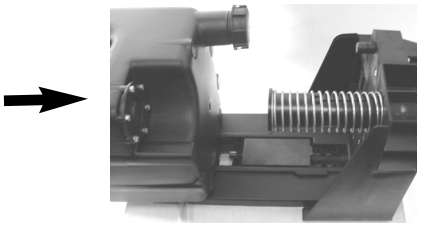
Distance to the rear wall : min 50 mm

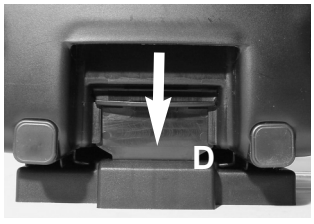


1. The toilet must be installed horizontally. .
2. Use the screws included in the delivery for fastening it to the floor of the vehicle.
3. The screws are then covered with the four caps.

6.4 Inserting the cassette

The floor and the cassette are in dovetail design.
The cassette can easily be pushed into this opening until the lock in the groove (**D**) notches.





6.5 Connecting pipes

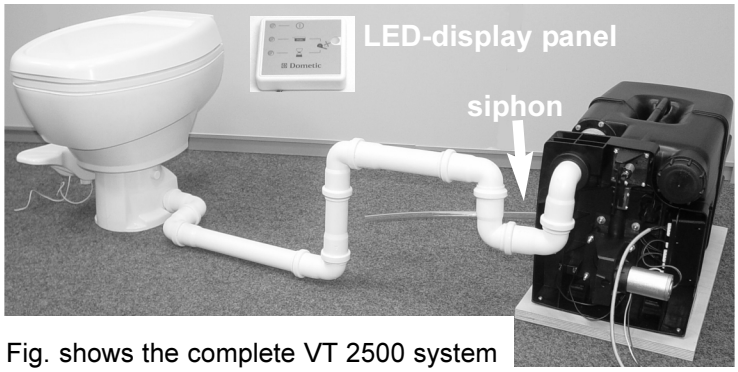


Fig. shows the complete VT 2500 system
with pipe connection on the right-hand side (pipe connection on the left-hand side, optional)

- The installation of the connecting pipes (DN 40) from the vacuum cassette to the toilet must be completely airtight and include a siphon!
- **The maximum length of the pipes from the toilet to the cassette is approx. 7 m!**
- If the pipes have to be shortened for laying purposes, the place where it is sawn must be deburred and the pipes chamfered from the outside.
- The laid pipes must be fastened without any strain with a pipe clip (40x15) approx. every 0.8 m.
- The maximum difference in height of the pipe connections from the toilet to the cassette must not exceed 0.8 m (see Fig. 1).
  Always lay the pipes at **right angles**!
- The horizontally laid pipes must be installed with an incline of approx. **1°** from the toilet to the cassette (see Fig. 1)!

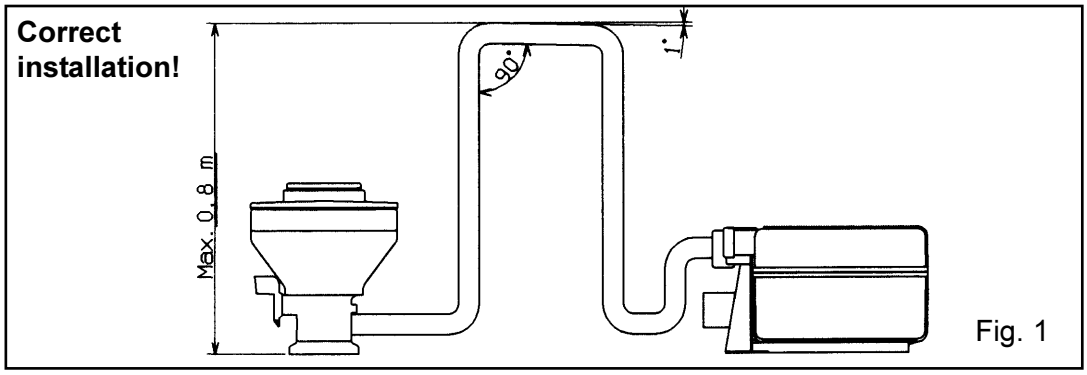


Fig. 1

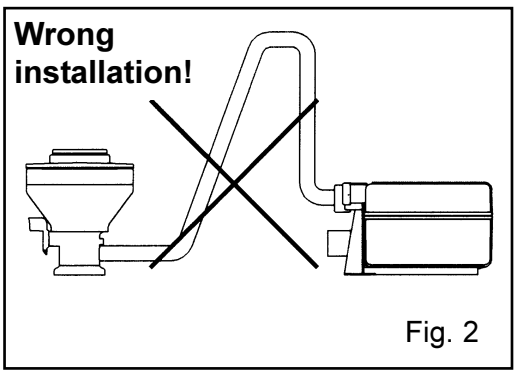
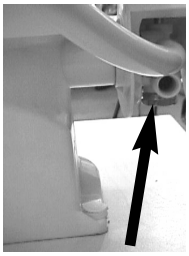
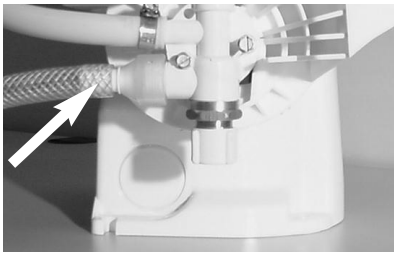


Fig. 2

6.6 Water supply





The water supply is provided with the aid of a pump (this can also be the pump available in the vehicle) and a hose connection from the fresh-water container.

Fasten a hose clamp to the water-supply connection.

6.7 Electrical installation

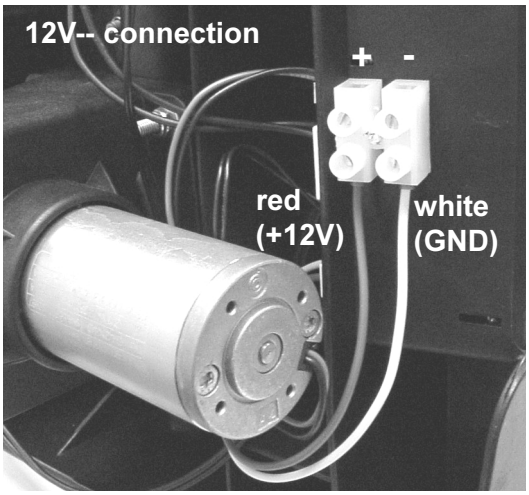
⚠ ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY QUALIFIED PERSONNEL ONLY !

The **12V DC** connection to the toilet electronics is shown in the adjacent figure.
Connect by **right polaraity** :

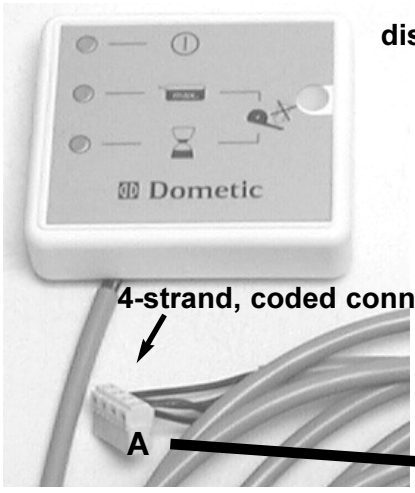
RED + **WHITE -**

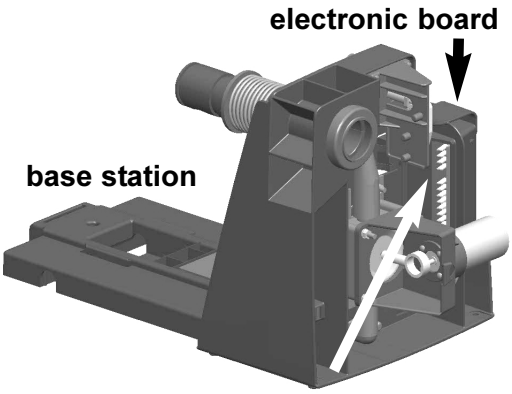
The connection cable must have a cross-section of at least **4 mm²**. It must be protected by an **8-amp-fuse** (wiring diagram pg.15)

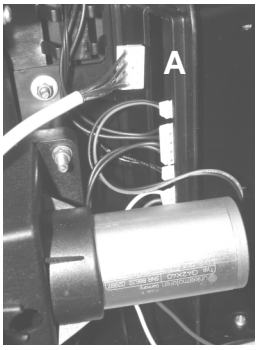
The board battery should be protected by an undervoltage cut-out.



6.7.1 Connection display on the control electronics





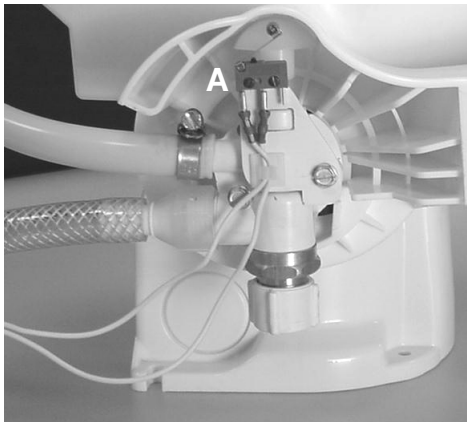


The 4-strand, coded connection cable (**A**) (cable cross-section 1 mm²) is connected to the circuit board as shown in the figures.

6.7.2 Microswitch connection

For vehicles that are not equipped with a pressurized water system, a toilet with integrated microswitch for controlling a pump must be installed.
The microswitch (**A**) is connected in the circuit of the submergible pump so that the pump is activated via the microswitch when the pedal is pressed.

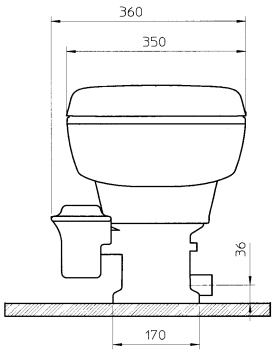
Connection cable to the pump with two wires

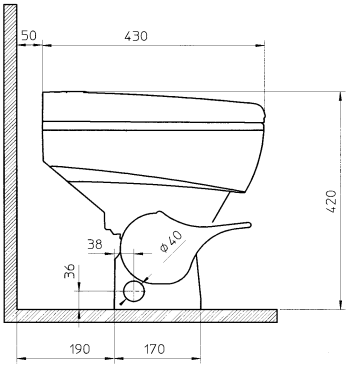


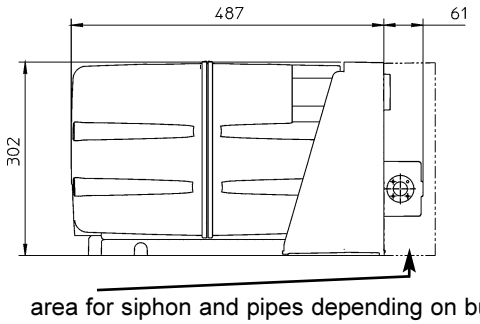
This connection is not necessary in vehicles with a pressure controlled pump.

6.8 Data sheet

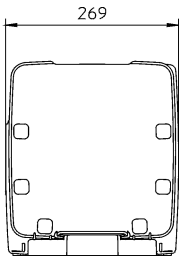
Voltage supply:	12 V direct current, Undervoltage fuse to be provided for on the vehicle.
Current consumption:	1.5 A whilst the pump is running
Pump running time:	max. 60-70 sec. (depending on cassette content and length of pipes laid)
Total cassette content:	approx. 25 litres
Of this cassette content, excrements:	approx. 14 litres
Chemical additives:	not required
Toilet paper:	use with a max. of 2 layers
Changing the filter:	depending on frequency used, at the latest every 3 years. (spare part nr. 242 6001-14/1)
Dimensions: (H x W x D in mm)	toilet 420 x 360 x 430 base station with container 302 x 269 x 548



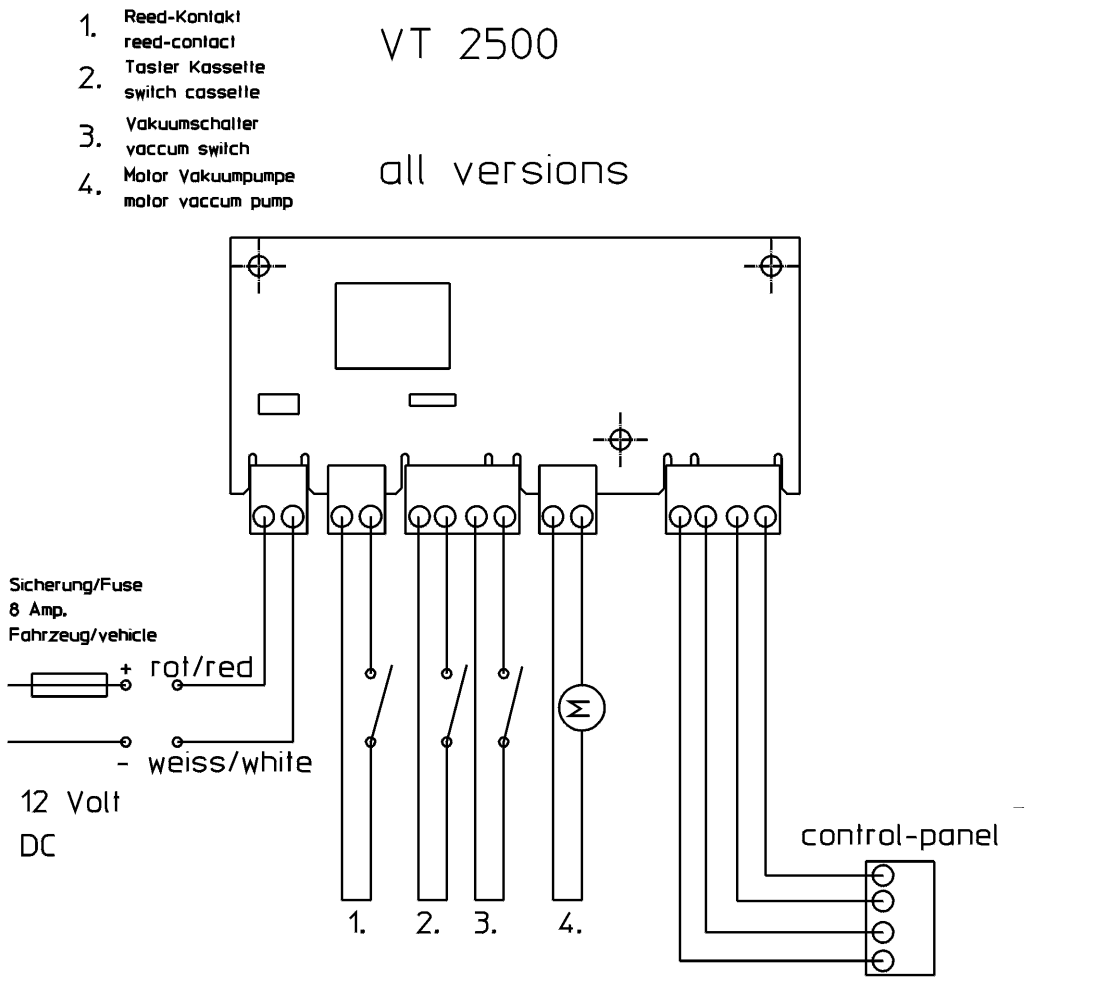


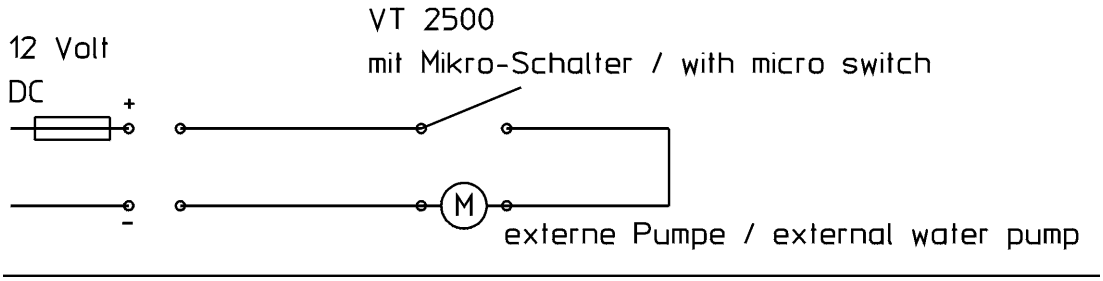


area for siphon and pipes depending on built-in-situation (ch. “6.5”)



6.9 Wiring diagram





The power supply must comply with the following performance data:
Vehicle battery:
Voltage > 11.5 Volt
Peak current (short-term) 8 Amp. Use slow-acting fuse in the feed line!
These values are reached in the standard vehicle batteries.

Power pack:

When using a controlled fixed-voltage power pack (e.g. for application in weekend homes) one should similarly make sure that these values are adhered to. Normal rated voltage for power packs with 13.8 V at 6 A.
The control electronics are equipped with an overload protection (Poly Switch). This fuse protects the motor against excessively high currents (e.g. also for older or badly serviced batteries, that supply less than the required minimum voltage of 11.5 Volt). Should this fuse be activated (yellow LED illuminates on the control display), it is necessary to check the power supply and ensure that the given values are adhered to.

After a RESET (short-term interruption of the electric circuit, e.g. by removing the cassette) and a short cooling-down period (approx. 1 min) the system is ready for .

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